Make sure you justify your statements completely and carefully.

1. Consider the ternary [13, 10] Hamming code with check matrix

Decode the received word

(1, 0, 1, 1, 2, 1, 2, 2, 2, 2, 2, 2, 2).

2. Problem 4.1.5 from the **Notes**.

3. Problem 4.1.9 from the **Notes**.